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wherein R_1 and R_3 are the same or different groups and are independently selected from the naphthalene dicarboxylate derivative repeating unit (I), a hydrogen radical and a methyl radical. R_2 is an alkylene radical having 1 to 6 carbon atoms; n is from 10 to 200. Also contemplated are implantable prostheses that are flat constructions useful as patches and filters or tubular constructions useful as vascular grafts. A further aspect of this invention provides a method for making a radiation and thermal resistant and hydrolytically stable, steam sterilizable biocompatible prosthesis.

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